Theme Summary Report
Land Use - Land Cover

Overview:

The Theme Summary report provides an overview of the status, overall maturity, and other characteristics for the NGDA Datasets within a Theme. The report identifies NGDA Datasets that have completed the Lifecycle Maturity Assessment (LMA), and presents the results by the stages in the geospatial data lifecycle. This information can assist the Theme Leads in evaluating progress and assessing overall maturity for each NGDA Theme to help facilitate support for NGDA portfolio management identified in OMB's Circular A–16.

Theme Lead(s):

Name: Jonathan Smith

Agency: USGS

Email: jhsmith@usgs.gov

Name: Greg Reams

Agency: USFS

Email: greams@fs.fed.us

Total NGDA Datasets: 14

NGDA LMA Submission Status:

0	**Not Started:**	The LMA has not been initiated.
0	**In Progress:**	The LMA has been initiated and is in progress.
14	**Complete:**	The LMA has been submitted and quality control is complete.

NGDA LMA Overall Maturity Status Overview

LMA Questions: 19 | NGDA Dataset Total: 14 | NGDA Datasets with LMA Complete: 14
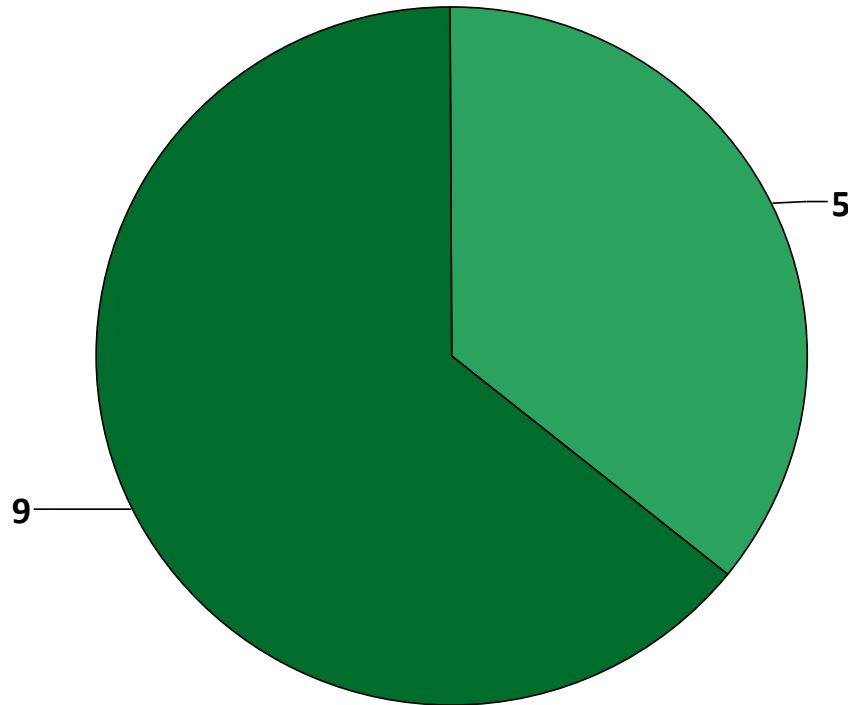

NGDA Dataset Maturity Definitions

Detailed LMA Questions: https://www.geoplatform.gov/sites/default/files/NGDA_MP_LMA_Tool.pdf

How To Calculate Maturity: https://www.geoplatform.gov/sites/default/files/How_to_Calculate_Maturity.pdf

| Maturity	Maturity Characteristics for All Lifecycle Stages
Optimized; Established Rank = 5	Dataset meets virtually all business needs of all users. The dataset is considered authoritative by owners and secondary users. It is curated across all stages of the approved lifecycle. Future needs are defined on a regular basis and resources for addressing both current and future business requirements are available.
Mature; Consistent Rank = 4	Dataset meets all the business needs of the primary owner and most of the secondary users. The dataset is curated and used as authoritative by the primary owner. Dataset is used widely by secondary users actively engaged in sustaining the dataset. Future needs are identified and steps are planned to address these. All stages are supported and reviewed on a recurring basis. The dataset is well managed in relation to the approved lifecycle.
Managed; Predictable Rank = 3	Dataset meets a significant number of the business needs of the primary owner and is widely used as an authoritative resource by secondary users. Benchmark activities are occurring in at least four of the approved lifecycle stages. Management practices in relation to the approved lifecycle is moderate but consistent. Dataset is integrating changing business requirements in lifecycle stages impacting overall maturity.
Transition; Transformation Rank = 2	Dataset meets business needs of the primary owner and has moderate use by secondary users. Benchmark activities are occurring in at least three stages. Efforts to integrate funding, include partners, and obtain data are not supported in a sustained manner. Management practices in relation to the stages of the approved lifecycle is limited.
Planned; Initial Development Rank = 1	Dataset limited in meeting business needs of the primary owner. Benchmark activities in the approved lifecycle are just starting to consider secondary uses, partnerships are forming to support additional dataset uses. Dataset development is in a very early stage. Minimal or limited management against the benchmarks in the approved lifecycle.
No Activity Rank = no activity	Dataset meets project or local business needs of the primary owner, secondary or additional uses or users were not considered, not recognized as an authoritative data or is part of a similar dataset. Not managed to any of the benchmarks in the approved lifecycle.

Land Use - Land Cover Theme

General Questions

Data characteristics that are applicable to all stages.
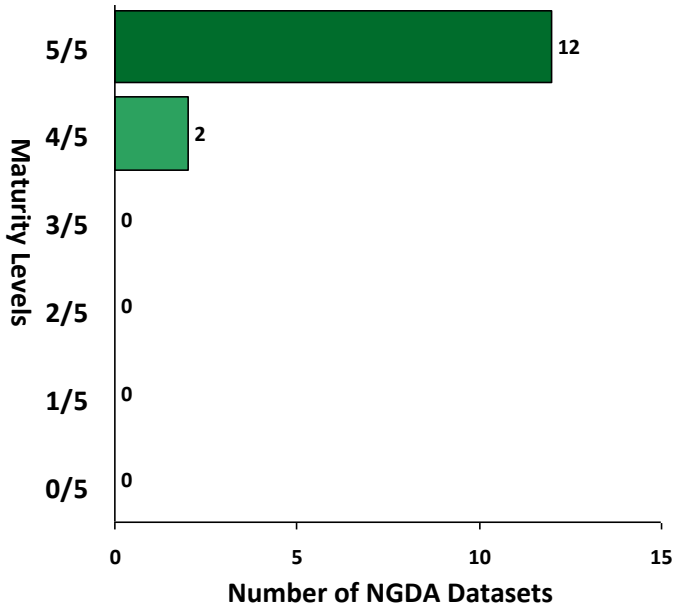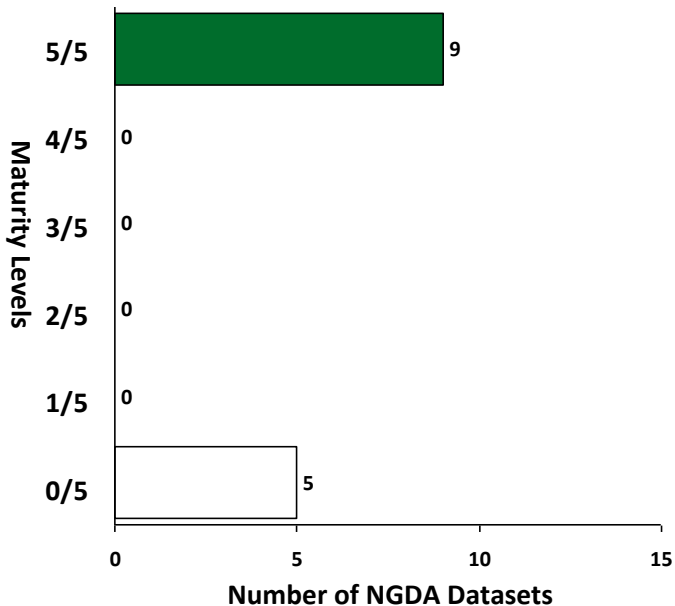

Stage 1 - Define/Plan

Characterization of data requirements based upon business-driven user needs.
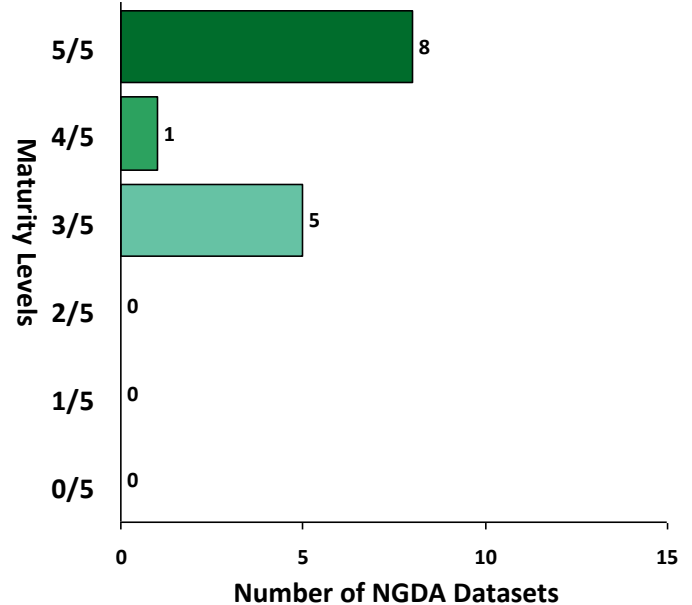
Stage 2 - Inventory/Evaluate

The creation and publication of a detailed list of data assets and data gaps (both internal and external) as they relate to business-driven user needs.

Stage 3 - Obtain

The collection, purchase, conversion, transformation, sharing, exchanging, or creation of geospatial data that were selected to meet the business needs is identified.
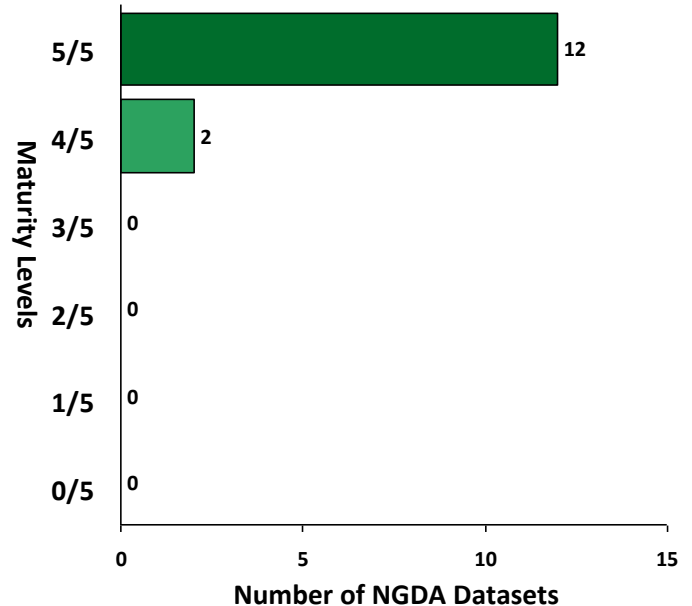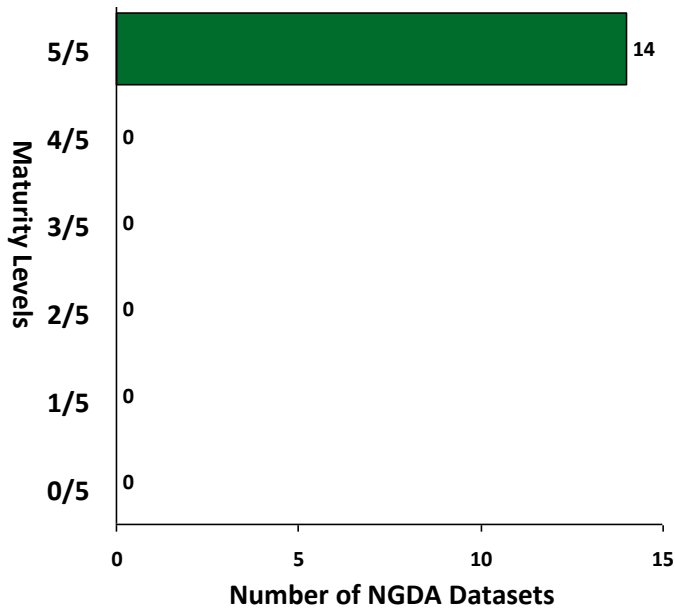

Key for NGDA Dataset Lifecycle Maturity Assessment Levels:

|		
0/5 No Activity	2/5 Transition; Transformation	4/5 Mature; Consistent
1/5 Planned; Initial Development	3/5 Managed; Predictable	5/5 Optimized; Established

Stage 4 - Access

Making data known and retrievable through documentation and discovery mechanisms to meet user needs and business requirements.
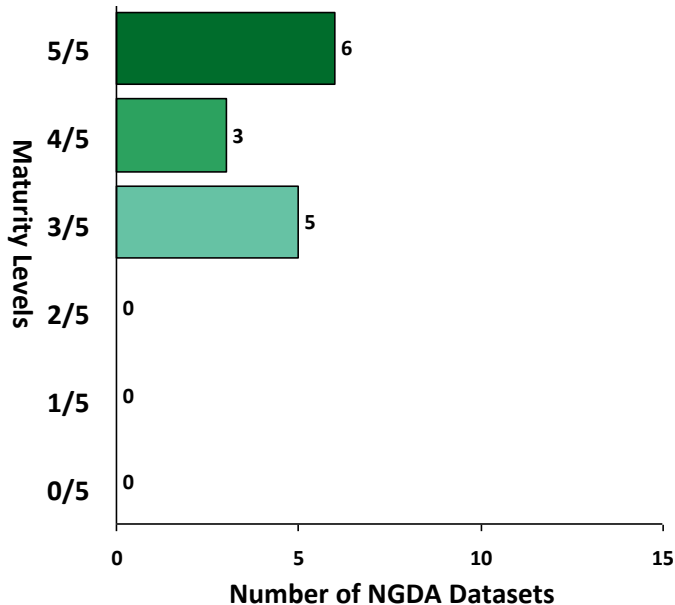

Stage 5 - Maintain

The ongoing processes and procedures to ensure that the data meet business requirements.
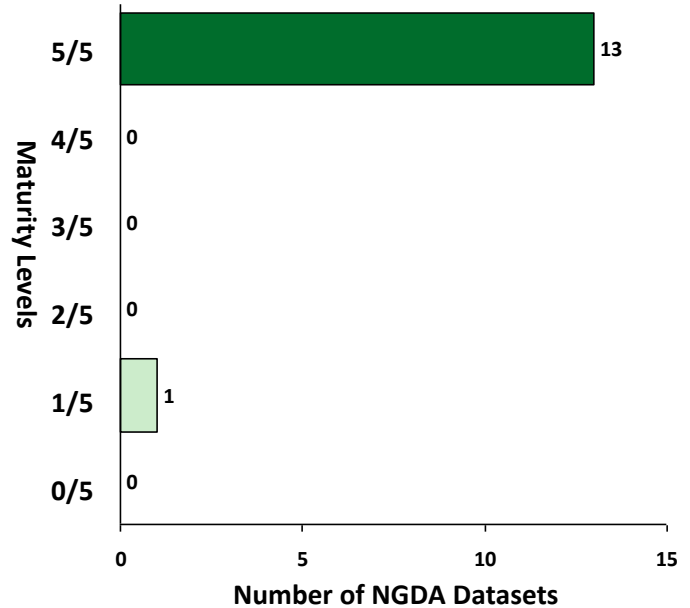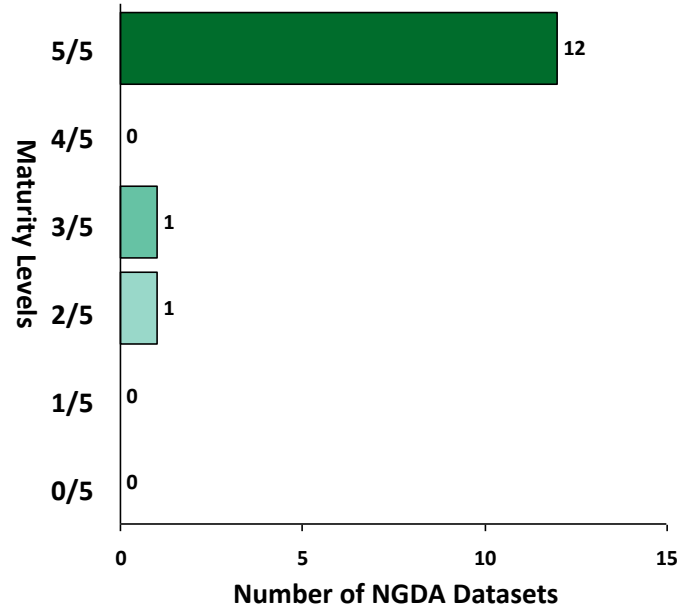

Stage 6 - Use/Evaluate

The ongoing assessment, validation, and potential enhancement of data to meet user needs and business requirements.

Stage 7 - Archive

Facilitate the appraisal, retention, storage, and accessibility of data and establish mechanisms for development of stewardship tools and services.

Key for NGDA Dataset Lifecycle Maturity Assessment Levels:

0/5 No Activity	**2/5** Transition; Transformation	**4/5** Mature; Consistent
1/5 Planned; Initial Development	**3/5** Managed; Predictable	**5/5** Optimized; Established

NGDA Dataset LMA Summary Table

Dataset	Submission Status	Overall	General	Define	Inventory Evaluate	Obtain	Access	Maintain	Use Evaluate	Archive	Agency Abbreviation
Coastal Change Analysis Program (C-CAP) High Resolution Land Cover and Change	Complete	5/5	4/5	5/5	5/5	4/5	5/5	5/5	5/5	5/5	DOC-NOAA
Coastal Change Analysis Program (C-CAP) Regional Land Cover Data and Change	Complete	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	DOC-NOAA
CropScape - Cropland Data Layer	Complete	5/5	5/5	5/5	5/5	5/5	5/5	5/5	4/5	3/5	USDA-NASS
US Forest Service Forest Inventory and Analysis Database	Complete	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	2/5	USDA-USFS
LANDFIRE Potential Vegetation	Complete	4/5	5/5	3/5	0/5	5/5	5/5	5/5	3/5	5/5	USDA-USFS
LANDFIRE Existing Vegetation	Complete	4/5	5/5	3/5	0/5	5/5	5/5	5/5	3/5	5/5	USDA-USFS
LANDFIRE Historical Fire Regimes	Complete	4/5	5/5	3/5	0/5	5/5	5/5	5/5	3/5	5/5	USDA-USFS
LANDFIRE Canopy Fuels	Complete	4/5	5/5	3/5	0/5	5/5	5/5	5/5	3/5	5/5	USDA-USFS
LANDFIRE Surface Fuels	Complete	4/5	5/5	3/5	0/5	5/5	5/5	5/5	3/5	5/5	USDA-USFS
Monitoring Trends in Burn Severity	Complete	5/5	4/5	4/5	5/5	4/5	5/5	5/5	4/5	5/5	USDA-USFS
National Land Cover Database (NLCD) Land Cover Collection	Complete	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	DOI-USGS
National Land Cover Database (NLCD) Percent Developed Imperviousness Collection	Complete	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	DOI-USGS
National Land Cover Database (NLCD) Percent Tree Canopy Collection	Complete	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	DOI-USGS
North American Land Change Monitoring System (NALCMS) Collection	Complete	5/5	5/5	5/5	5/5	5/5	5/5	1/5	4/5	5/5	DOI-USGS